



Periodic Antimicrobial Peptides ST25.txt  
SEQUENCE LISTING

<110> The Dow Chemical Company  
Strom, Robert M.  
Brodsema, Philip J.

<120> Periodic Antimicrobial Peptides

<130> 62424a

<140> 10/785,210  
<141> 2004-02-24

<160> 69

<170> PatentIn version 3.3

<210> 1  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> Periodic Peptide

<400> 1

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

<210> 2  
<211> 20  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 2

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys  
20

<210> 3  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 3

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Periodic Antimicrobial Peptides ST25.txt  
Lys Phe Ala Lys Lys Phe Ala Lys  
20

<210> 4  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 4

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25

<210> 5  
<211> 32  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptides

<400> 5

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25 30

<210> 6  
<211> 48  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 6

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25 30

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
35 40 45

<210> 7

Periodic Antimicrobial Peptides ST25.txt

<211> 68  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 7

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25 30

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
35 40 45

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
50 55 60

Lys Phe Ala Lys  
65

<210> 8  
<211> 84  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 8

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25 30

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
35 40 45

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
50 55 60

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
65 70 75 80

Lys Phe Ala Lys

Periodic Antimicrobial Peptides ST25.txt

<210> 9  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 9

Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg  
1 5 10 15

Arg Phe Ala Arg Arg Phe Ala Arg  
20

<210> 10  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 10

Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg  
1 5 10 15

Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg  
20 25

<210> 11  
<211> 32  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 11

Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg  
1 5 10 15

Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg  
20 25 30

<210> 12  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 12

Periodic Antimicrobial Peptides ST25.txt

Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys  
1 5 10 15

Phe Ala Lys Lys Phe Ala Lys Lys  
20

<210> 13  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> Periodic Peptide

<400> 13

Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe  
1 5 10 15

Ala Lys Lys Phe Ala Lys Lys Phe  
20

<210> 14  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 14

Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala  
1 5 10 15

Lys Lys Phe Ala Lys Lys Phe Ala  
20

<210> 15  
<211> 20  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 15

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
1 5 10 15

Leu Lys Lys Leu  
20

Periodic Antimicrobial Peptides ST25.txt

<210> 16  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 16

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
1 5 10 15

Leu Lys Lys Leu Leu Lys Lys Leu  
20

<210> 17  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 17

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
1 5 10 15

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
20 25

<210> 18  
<211> 32  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 18

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
1 5 10 15

Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu  
20 25 30

<210> 19  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 19

Periodic Antimicrobial Peptides ST25.txt

Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe  
1 5 10 15

Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe  
20 25

<210> 20  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 20

Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys  
1 5 10 15

Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys  
20 25

<210> 21  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 21

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25

<210> 22  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 22

Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys  
1 5 10 15

Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys  
20 25

Periodic Antimicrobial Peptides ST25.txt

<210> 23  
<211> 28  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 23

Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys  
1 5 10 15

Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys  
20 25

<210> 24  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 24

Lys Phe Lys  
1 5 10 15

<210> 25  
<211> 18  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 25

Lys Phe Lys Lys  
1 5 10 15

Phe Lys

<210> 26  
<211> 21  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 26

Lys Phe Lys Lys  
1 5 10 15

Periodic Antimicrobial Peptides ST25.txt

Phe Lys Lys Phe Lys  
20

<210> 27  
<211> 24  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 27

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe Lys Lys Phe Lys  
20

<210> 28  
<211> 27  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 28

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys  
20 25

<210> 29  
<211> 30  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 29

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys  
20 25 30

<210> 30  
<211> 36  
<212> PRT  
<213> artificial

Periodic Antimicrobial Peptides ST25.txt

<220>  
<223> periodic peptide

<400> 30

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe  
20 25 30

Lys Lys Phe Lys  
35

<210> 31  
<211> 48  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide  
<400> 31

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe  
20 25 30

Lys Lys Phe Lys  
35 40 45

<210> 32  
<211> 63  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide  
<400> 32

Lys Phe Lys Lys  
1 5 10 15

Phe Lys Lys Phe  
20 25 30

Lys Lys Phe Lys  
35 40 45

Lys Phe Lys  
Page 10

50

Periodic Antimicrobial Peptides ST25.txt  
55                   60

<210> 33  
<211> 6  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 33

Phe Lys Ala Phe Lys Ala  
1                   5

<210> 34  
<211> 12  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 34

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala  
1                   5                   10

<210> 35  
<211> 18  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 35

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1                   5                   10                   15

Lys Ala

<210> 36  
<211> 21  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 36

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1                   5                   10                   15

Periodic Antimicrobial Peptides ST25.txt

Lys Ala Phe Lys Ala  
20

<210> 37  
<211> 24  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 37

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1 5 10 15

Lys Ala Phe Lys Ala Phe Lys Ala  
20

<210> 38  
<211> 27  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 38

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1 5 10 15

Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala  
20 25

<210> 39  
<211> 30  
<212> PRT  
<213> artificial  
  
<220>  
<223> periodic peptide  
  
<400> 39

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1 5 10 15

Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala  
20 25 30

<210> 40  
<211> 51  
<212> PRT  
<213> artificial

Periodic Antimicrobial Peptides ST25.txt

<220>

<223> periodic peptide

<400> 40

Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe Lys Ala Phe  
1 5 10 15

Lys Ala Phe Lys  
20 25 30

Ala Phe Lys Ala  
35 40 45

Phe Lys Ala  
50

<210> 41

<211> 63

<212> PRT

<213> artificial

<220>

<223> periodic peptide

<400> 41

Phe Lys Ala Phe  
1 5 10 15

Lys Ala Phe Lys  
20 25 30

Ala Phe Lys Ala  
35 40 45

Phe Lys Ala  
50 55 60

<210> 42

<211> 4

<212> PRT

<213> artificial

<220>

<223> periodic peptide

<400> 42

Leu Lys Leu Lys  
1

<210> 43

<211> 10

Periodic Antimicrobial Peptides ST25.txt

<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 43

Leu Lys Leu Lys Leu Lys Leu Lys Leu Lys  
1 5 10

<210> 44  
<211> 16  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 44

Leu Lys  
1 5 10 15

<210> 45  
<211> 18  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 45

Leu Lys  
1 5 10 15

Leu Lys

<210> 46  
<211> 20  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 46

Leu Lys  
1 5 10 15

Leu Lys Leu Lys  
20

<210> 47

Periodic Antimicrobial Peptides ST25.txt

<211> 22  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 47

Leu Lys  
1 5 10 15

Leu Lys Leu Lys Leu Lys  
20

<210> 48  
<211> 24  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 48

Leu Lys  
1 5 10 15

Leu Lys Leu Lys Leu Lys Leu Lys  
20

<210> 49  
<211> 36  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 49

Leu Lys  
1 5 10 15

Leu Lys  
20 25 30

Leu Lys Leu Lys  
35

<210> 50  
<211> 48  
<212> PRT  
<213> artificial

<220>

Periodic Antimicrobial Peptides ST25.txt

<223> periodic peptide

<400> 50

Leu Lys  
1 5 10 15

Leu Lys  
20 25 30

Leu Lys  
35 40 45

<210> 51

<211> 14

<212> PRT

<213> artificial

<220>

<223> periodic peptide

<400> 51

Leu Arg  
1 5 10

<210> 52

<211> 18

<212> PRT

<213> artificial

<220>

<223> periodic peptide

<400> 52

Leu Arg  
1 5 10 15

Leu Arg

<210> 53

<211> 22

<212> PRT

<213> artificial

<220>

<223> periodic peptide

<400> 53

Leu Arg  
1 5 10 15

Leu Arg Leu Arg Leu Arg

## Periodic Antimicrobial Peptides ST25.txt

<210> 54  
<211> 33  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 54

Lys Gly Lys Lys Gly Lys Lys Gly Lys Lys Lys Gly Lys Lys Lys 15  
1 5 10

Gly Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys Gly 30  
20 25

Lys

<210> 55  
<211> 45  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 55

Lys Gly Lys Lys 15  
1 5 10

Gly Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys Gly 30  
20 25

Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys Lys Gly Lys 45  
35 40

<210> 56  
<211> 21  
<212> PRT  
<213> artificial

<220>  
<223> periodic peptide

<400> 56

Lys Thr Lys 15  
1 5 10

Thr Lys Lys Thr Lys  
20

Periodic Antimicrobial Peptides ST25.txt

<210> 57  
<211> 4  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 57

Lys Phe Ala Lys  
1

<210> 58  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 58

Lys Phe Ala Lys Lys Phe Ala Lys  
1 5

<210> 59  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 59

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10

<210> 60  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 60

Leu Lys Leu Lys Leu Lys Leu Lys Leu Lys Leu Lys  
1 5 10

<210> 61  
<211> 80  
<212> PRT  
<213> Artificial

Periodic Antimicrobial Peptides ST25.txt

<220>  
<223> periodic peptide

<400> 61

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
1 5 10 15

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
20 25 30

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
35 40 45

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
50 55 60

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys  
65 70 75 80

<210> 62  
<211> 9  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 62

Lys Phe Lys Lys Phe Lys Lys Phe Lys  
1 5

<210> 63  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 63

Lys Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys  
1 5 10

<210> 64  
<211> 21  
<212> PRT  
<213> Artificial

<220>  
<223> periodic peptide

<400> 64

Periodic Antimicrobial Peptides ST25.txt  
Lys Gly Lys Lys Gly Lys Gly Lys Gly Lys Gly Lys Lys  
1 5 10 15

Gly Lys Lys Gly Lys  
20

<210> 65  
<211> 23  
<212> PRT  
<213> Artificial

<220>  
<223> D2A21

<400> 65

Phe Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe  
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe  
20

<210> 66  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> D4E1

<400> 66

Phe Lys Leu Arg Ala Lys Ile Lys Val Arg Leu Arg Ala Lys Ile Lys  
1 5 10 15

Leu

<210> 67  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> PBF16a

<400> 67

Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Ala Ala Lys  
1 5 10 15

<210> 68  
<211> 16  
<212> PRT  
<213> Artificial

Periodic Antimicrobial Peptides ST25.txt

<220>  
<223> PBF16b

<400> 68

Lys Phe Ala Lys Lys Phe Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys  
1 5 10 15

<210> 69  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> PBF16c

<400> 69

Lys Phe Ala Lys Lys Ala Ala Lys Lys Phe Ala Lys Lys Ala Ala Lys  
1 5 10 15